ARMY CENTER OF EXCELLENCE, SUBSISTENCE

Facilities & Equipment Division

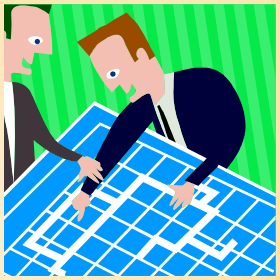
Field Feeding Equipment Update

MISSION

Dining Facility Designs

Equip. Schedules

251-500



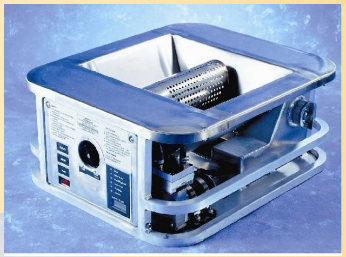
501-800

801-1300

Facilities & Equipment Division

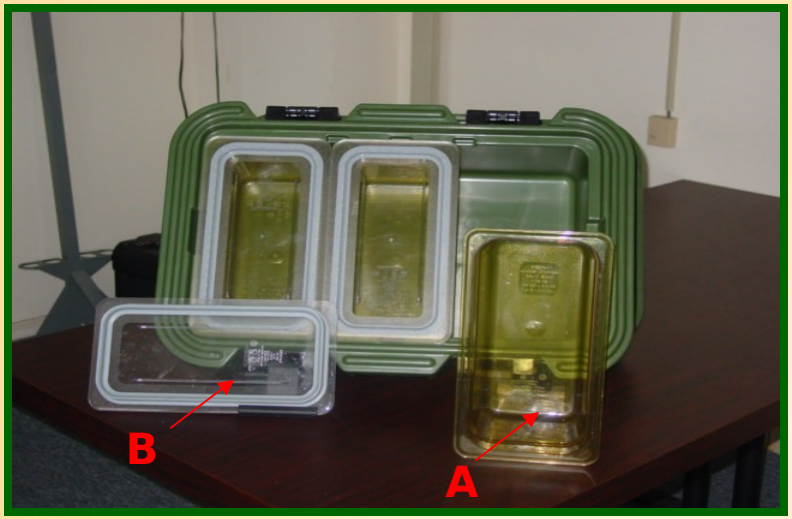
Equip. Funding For MCA Projects

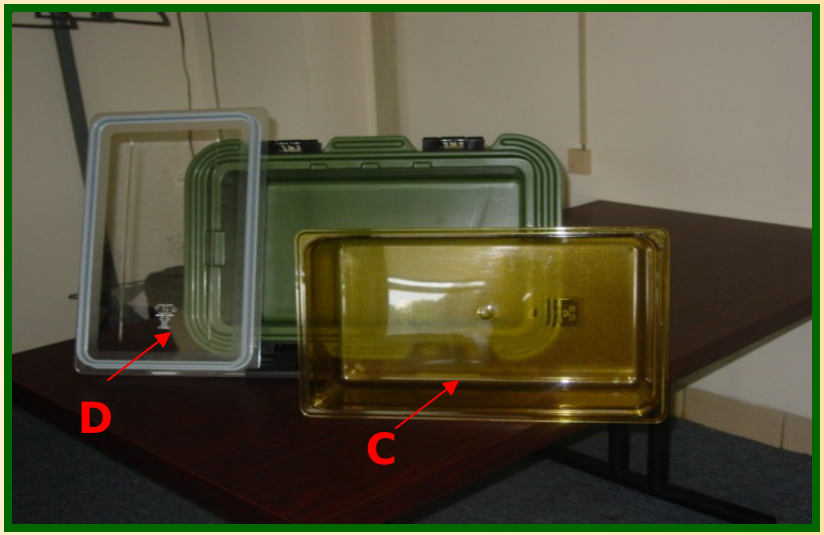
Field Food Service Equip.



CTA 50-909

Insulated Food Container





NSN's

7360-01-517-4826 **Olive Drab, 12 1/4 deep (3) Plastic pans with cov**
7360-01-517-4839 **Desert Sand, 12 1/4 deep (3) Plastic Pans with c**

A: 7360-01-234-2189 1/3 Size Plastic Insert Pan
B: 7360-01-517-4865 1/3 Size Plastic Insert Pan Cover
C: 7360-01-517-4861 Full Size Plastic Insert Pan
D: 7360-01-517-4867 Full Size Plastic Insert Pan Cover

Optimized Insulated Food Container

Design Considerations	*Current IFC*	*Optimized IFC*
Cube Volume [in³]	**4,518**	**3,636 (19.5% reduction)**
Packing volume of 4 units [in³]	**18,000**	**8,600 (52% reduction)**
Empty Weight [lbs]	**18.5**	**~16 (14-20 % reduction, dependant upon production process)**

- New IFC reduces weight and volume by ~20% and nest together
- Commercial Item Description to be revised and updated

Modern Burner Unit (MBU)

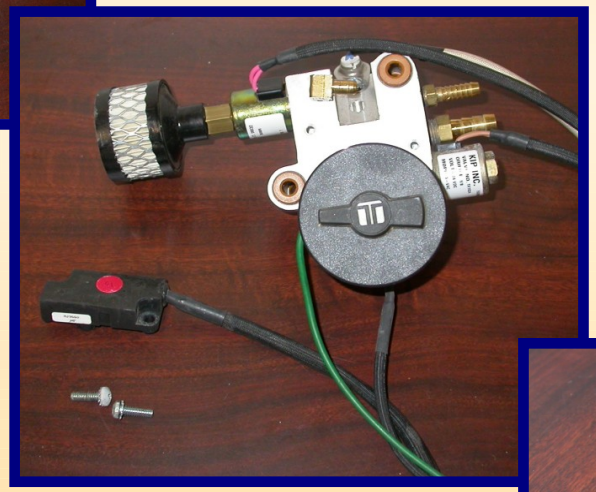
MISSION:
Primary heat source for Cooking Operations in All Army Field Feeding Equipment.

The MBU replaces the M2 gasoline burner
The M2 was first fielded in 1959
The MBU was first fielded in 1999 and is used in all field feeding kitchens

FIELDING: Complete!

Modern Burner Unit (MBU)

Flame Sensor Upgrade



Original flame sensors begin failing at 270°F

New flames sensors operate at 350+°F

If the burner shuts down 4 seconds after pressing the start button, the flame sensor has failed

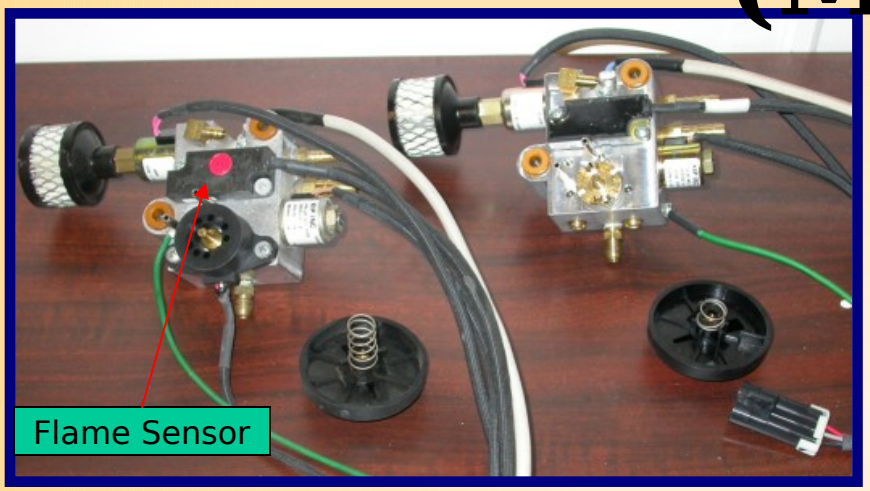
If MBU can only be kept running by holding the start button in, the flame sensor has failed

New flame sensors have serial numbers beginning with 89568-0001

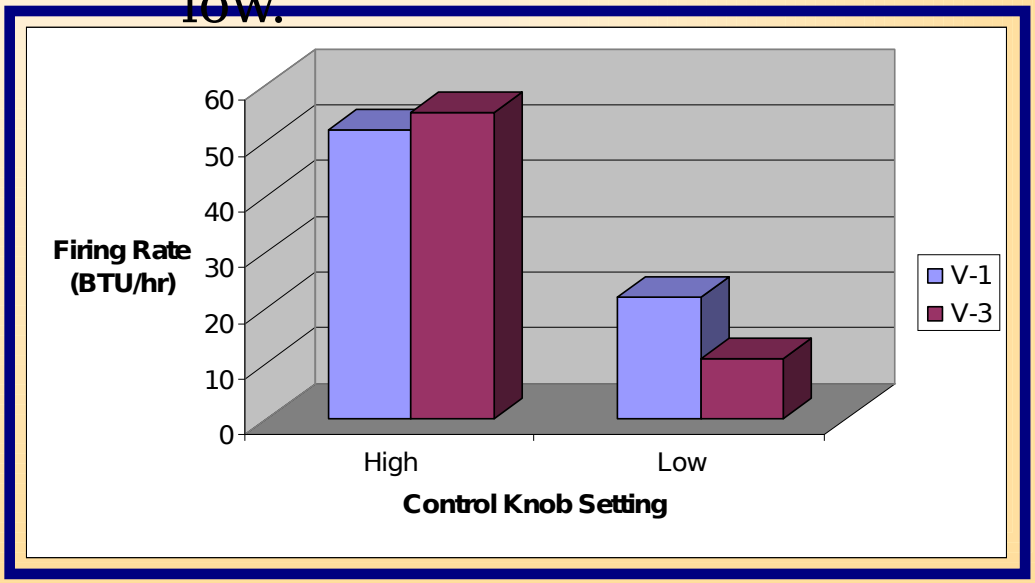
NSN 7310-01-462-4918

Modern Burner Unit (MBU)

Fuel delivery block upgrade



- Primary purpose: Increase the range of heat output. Lower low and higher high.
- Secondary purpose: Reduce noise made by the MBU on low.



- Contractor applied MWO started June 2004 at Ft. Lee
- Effort will take 3 to 4 years.
- New Fuel Delivery Block comes with new

Modern Burner Unit (MBU)

Fuel delivery block upgrade

FUELING - DO NOT USE GASOLINE
For manual fueling - see operating instructions
1. Install MBU in appliance
2. Connect 24 Volt DC power cable to front of MBU and press POWER button
3. Connect fuel hose to front of MBU and fuel supply
4. Turn burner control to HIGH (FUEL) setting
5. Press FUEL button
6. When fuel indicator stops flashing - disconnect hose
7. Press POWER button
OPERATION
1. Press POWER button
2. Turn burner control to HIGH (START) setting
3. Press START button
4. When run indicator lights, turn burner control to desired setting
5. In the event of an automatic shut down see Operating Instructions
Shut Down
1. Press STOP button
2. Press POWER button
MBU V3
START
STOP
HIGH (START) (FUEL)
ULTRA LOW
Run
Warm Up
Fueling/Full
Low Fuel
Voltage

Control panel and data plate decals will be changed to reflect updated

Current NSN

Modern Burner Unit (MBU)

New Model Power Converter (on right)

7310-01-502-9455

- ½ inch shorter
- 5 lbs lighter
- More robust and reliable

Modern Burner Unit (MBU)

Thermostatic Control

- Keeps sinks at required temperatures for most effective sanitation.
- Same control design for all appliances.
- Planned fielding in FY ’07.

Modern Burner Unit (MBU)

Thermostatic Control

- Automatically cycles burner on and off to maintain set point temperature.
- Target applications: Sanitation sinks, CK ovens & CK

Modern Burner Unit (MBU)

Fuel Seal Maintenance

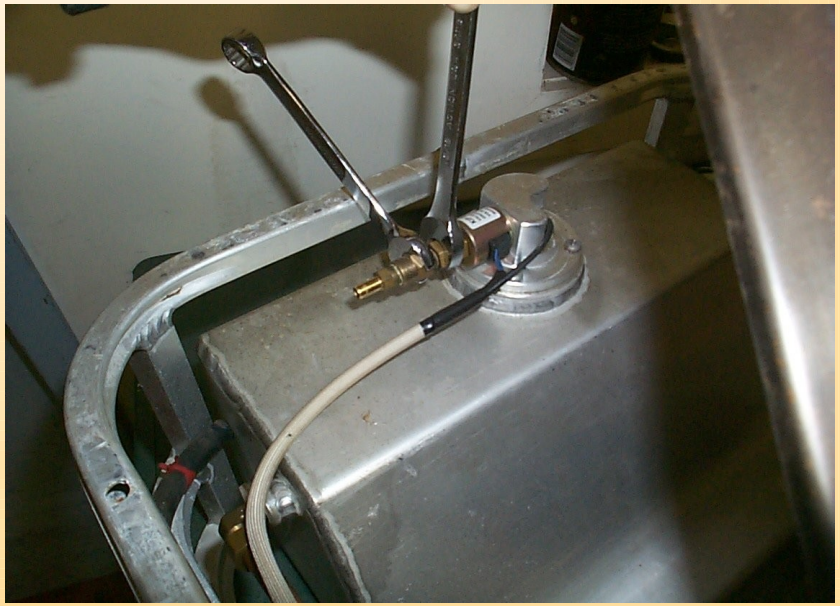
- Check for missing or cracked fuel seal
- A good fuel seal is necessary for automatic refueling
- A cracked or missing fuel seal will

Replace cracked or missing seal with: NSN 7310-01-462-4867

Modern Burner Unit (MBU)

Check Valve Repair (Burner will not refuel)

- Sticking check valve will not let MBU refuel.
- If you continuously have ER04's (time-out error): Test and repair check valve.



- Remove top pan bolts and place top pan to side. (above)
- Remove air line to check valve (right)
- Remove check valve (right)

Modern Burner Unit (MBU)

Check Valve Repair (Burner will not refuel)

- Remove check valve insert it in the air line (above left)
- Press fuel button on control panel.
- While MBU is trying to refuel, place finger over end of check valve.
  - If you feel suction, the check valve is not stuck.
- If it is stuck, free check valve with small screwdriver or other tool.

Mobile Kitchen Trailer (MKT)

- National reset program to fix kitchens returning from AOR.
- Letterkenny Army Depot has the contract. **FULLY funded**
- Axicor, Inc Reset Program 910-863-4655. **UNIT funded**

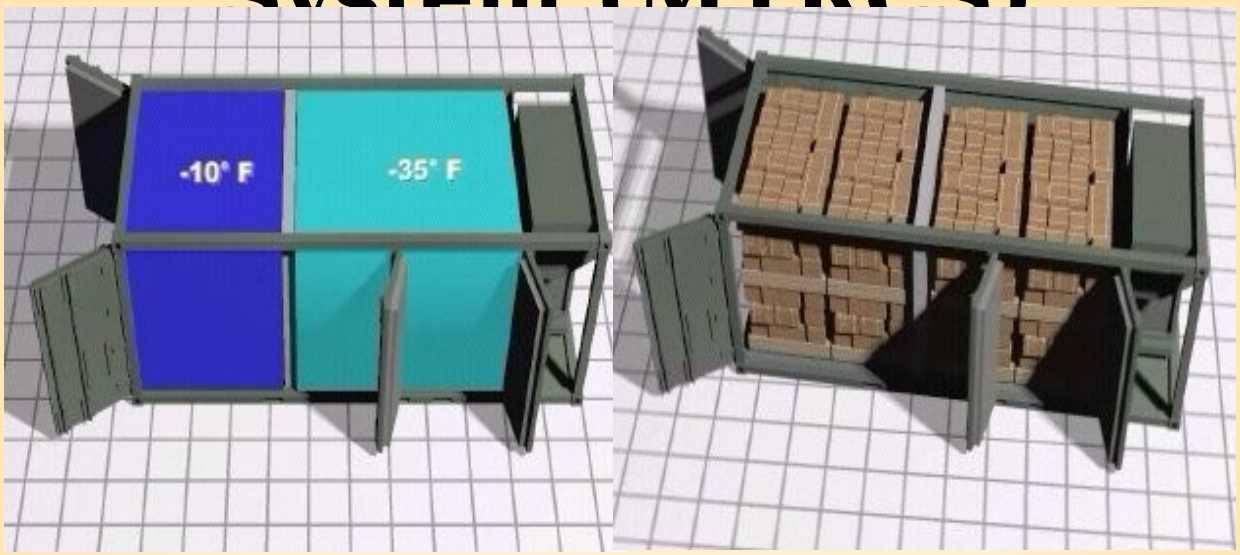
Food Sanitation Centers (FSC)

- Contract was awarded, funding is strong
- Fielding to be complete in 2009.
- No fielding matrix available at this time
- Parts are available for procurement.

Containerized Kitchen (CK)

- Fielding is currently focused on modular force requirements.
- 804 total systems to field. 208 field at end of April 2005.
- New production contract awarded to same manufacturer for 5 additional years.

Multi Temperature Refrigerator Containerized System (MTRCS)



- Prototype is being built
- Contractor testing in July 2005
- Design Testing at APG, August – November 2005
- User Demonstration at Log Warrior Exercise in November 2005
- Logistics Demonstration at APG in January 2006.
- BOIP currently in staffing
- First Unit Equipped in 4th Quarter, FY07

Assault Kitchen (AK)

MISSION
Provide a Hot Cook-prepared Meal to Soldiers in Forward Areas and Remote Sites Without Impacting Ongoing Operations.

The AK will:

- Transported and operated on a HMMWV and Light Tactical Trailer (LTT)
- Support company level feeding in light through heavy forces
- Heat on the move capability
- Ration heating unit is primary component
- Operated by two cooks.
- Set up and feeding in 15 minutes or less
- Feed 250 hot meals in 90 minutes or less

- ORD approved 29 Mar 04
- Funding is being established and will be joint procurement with USMC
- SBCT's will be fielded first

Facilities & Equip. Division Contacts

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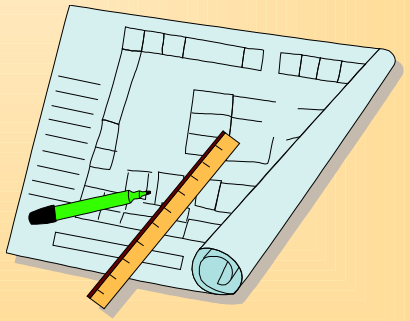
Please visit our web site @ www.quartermaster.army.mil/aces



QUESTIONS ?